

KPI Calculations (by Version) for Sales Cube

[Return to Sales Model Overview](#)

The KPI calculation defines calculations for some elements of a dimension. The calculation is defined through an expression stored in an attribute of the calculated element. The KPI calculation for the [Sales](#) cube is defined in the [Sales_measure](#) dimension.

The KPI calculation can be different for actual data than for planning data. Therefore, the [Version](#) elements are grouped into calculation schemas. The standard configuration defines the following two calculation schemas:

Calculation Schema	Definition
A	Calculation in the Actual version
P	Calculation in planning versions Mid-Term Planning , Budget , Forecast 3+9 , Forecast 6+6 , Forecast 9+3 , etc.

This assignment is defined by the [Calculation Schema](#) attribute of the [Version](#) dimension.

Element	Calculation Schema
Actual	A
Budget	P
Forecast 3+9	P
Forecast 6+6	P
Forecast 9+3	P
Previous Year	
Mid-Term Planning	P

If the **Calculation Schema** attribute is empty (like for **Previous Year** in the above example), no calculation applies to this version.

The calculations for elements in the **Sales_measure** dimension are defined in the attributes **PCalculation** (for versions assigned to the **P** calculation schema) and **ACalculation** (for versions assigned to the **A** calculation schema). More generally, speaking the calculation for a calculation schema is defined in the attribute starting with the first letter of the calculation schema followed by **...Calculation**.

The calculation can be defined as an expression in the **Jedox rule syntax**. This expression must not contain the target nor the equal sign. It may contain an optional cell-type restriction (**B:** or **C:**) followed by any valid rule expression.

Example:

Element	PCalculation	ACalculation
Unit Price	C:['Sales_measure':Gross Revenue] / ['Sales_measure':Units]	['Sales_measure':Gross Revenue] / ['Sales_measure':Units]
Gross Revenue	B:['Sales_measure':Units] * ['Sales_measure':Unit Price]	

For each element of the **Sales_measure** dimension in combination with the calculation schema having a calculation, a rule instance will be

created. This is managed by a [rule template](#).

The creation of rule instances can be restricted by additional dependencies. The dependencies for elements of the [Sales_measure](#) dimension are defined in the attribute [PCalculationDependencies](#) (for versions assigned to the [P](#) calculation schema) and [ACalculationDependencies](#) (for versions assigned to the [A](#) calculation schema). More generally speaking, the calculation for a calculation schema is defined in the attribute starting with the first letter of the calculation schema followed by [..CalculationDependencies](#).

If the calculation dependency is the text [Cube:](#) followed by a cube name, the calculation will only be valid if the referred cube exists in the database. Otherwise, the rule instance will not be created by the rule template. If the calculation dependency is empty or the attribute is missing, the calculation is always valid.

The target area of the calculation is the element from the [Sales_measure](#) dimension and the list of versions for the calculation schema.

Note: after changing the calculation schemas or the calculations, the rule templates handling the KPI calculations in the fact cubes need to be updated.